USSN: ,10/075,715

. Attorney Docket No: 1059.00073

CLAIMS:

1. (Currently amended) A method of affecting neurogenesis new neuron growth in a patient comprising the step of:

administering to a patient in need thereof a therapeutic amount of a therapeutic compound selected from the group of phosphodiesterase inhibitors, Larginine, sildenafil, and statins, and phosphodiesterase inhibitors for increasing levels of cGMP to a patient in need of neurogenesis post stroke wherein increased levels of cGMP result in neurogenesis new neuron growth.

Claims 2-5 (Canceled)

- 6. (Currently amended) A method of augmenting the production of neurons in a patient by administering to a patient in need thereof an effective amount of a therapeutic compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins, and phosphodiesterase inhibitors that increases levels of cGMP, to a site in need of augmentation, wherein increased levels of cGMP augment the production of new neurons.
- 7. (Currently amended) A method of increasing neurological function in a patient by administering to a patient in need thereof an effective amount of a therapeutic compound selected from the group of phosphodiesterase inhibitors, Larginine, sildenafil, and statins, and phosphodiesterase inhibitors that increases levels of cGMP to a patient in need of increased neurological function after neurological damage has occurred, whereby the increased levels of cGMP create neurogenesis new neuron growth, thereby increasing neurological function.
- 8. (Currently amended) A method of increasing cognitive and neurological function in a patient by administering an effective amount of a therapeutic compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins, and phosphodiesterase inhibitors for increasing levels of cGMP to a patient in need of increased cognitive and neurological function after neurological and

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cognitive damage has occurred, whereby the increased levels of cGMP create neurogenesis new neuron growth, thereby increasing neurological function.

- 9. (Currently amended) A method of affecting neurogenesis new neuron growth in a patient comprising the step of administering to a patient in need thereof an effective amount of a compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins, and phosphodiesterase inhibitors for increasing levels of cGMP in a patient in need of neurogenesis new neuron growth, wherein increased levels of cGMP result in neurogenesis new neuron growth.
- 10. (Currently amended) A method of augmenting the production of neurons in a patient by administering to a patient in need thereof an effective amount of a compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins, and phosphodiesterase inhibitors for increasing cGMP levels at a site in need of augmentation, wherein increased levels of cGMP augment the production of new neurons.
- 11. (Currently amended) A method of increasing neurological function in a patient by administering to a patient in need thereof an effective amount of a compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins, and phosphodiesterase inhibitors for increasing levels of cGMP in a patient in need of increased neurological function, wherein increased levels of cGMP increase neurological function.
- 12. (Currently amended) A method of increasing cognitive and neurological function in a patient by administering to a patient in need thereof an effective amount of a compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins, and phosphodiesterase inhibitors for increasing levels of cGMP in a patient in need of increased cognitive and neurological function, wherein increased levels of cGMP result in neurogenesis new neuron growth, thereby increasing cognitive and neurological function.

Claim 13 (canceled)